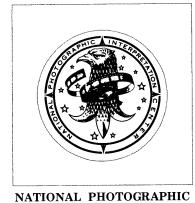
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PHOTOGRAPHIC NTERPRETATION REPORT

INTERPRETATION CENTER

AIR DEFENSE ACTIVITY IN TANZANIA

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DECEMBER 1976 Copy **21** PIR-020/76

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AIR DEFENSE ACTIVITY IN TANZANIA	
1. The first Tanzanian SA-3 surface-to-air missile (SAM) sites were recently observe These SA-3 SAM sites in addition previously identified air warning (AW) radar sites are indications of an effort to upgrade the defense posture of this East African country. Air defense activity, as described in this report cludes only AW radar sites and SAM sites.	on to e air
2. five AW radar sites have been identified in Tanzania (Figur Chinese radars occupy all of these sites. The most recently observed electronics order-of-battle each of these sites is provided in Table 1. Figure 2 depicts the Dar es Salaam AW Radar Fac Southwest.	e for cility
3. Additional evidence of radar activity was seen at Dar es Salaam Army Barracks Mgu the site of the abandoned Dar es Salaam Airfield Old Two	
LOCK, three FLAT FACE, and two SPOON REST radars were observed in a probable train mode at this installation	ning
4. SA-3 SAM sites, support facilities, and equipment were seen for the first time in Tanz [Tanzania is the first sub-Saharan count receive this low-to-medium altitude SAM system. A total of four SA-3 sites, one temporary support facility, and one probable SA-3 support facility under construction was identified in vicinity of the capital city of Dar es Salaam (Figure 4). The table inset on Figure 4 summarize occupancy status and missile order-of-battle at each location. One of the occupied SA-3 sit shown on Figure 5, and the temporary SA-3 support facility is depicted on Figure 6.	ry to 2 SA-3 n the s the
REFERENCES	
MAPS OR CHARTS	
MAPS OR CHARTS AMS. Joint Operations Graphic (Air), Series 1501, Sheet SB 37-11 1st ed, Dec 67, scale 1:25	0,000
AMS. Joint Operations Graphic (Air), Series 1501, Sheet SB 37-11 1st ed, Dec 67, scale 1:25 (CONFIDENTIAL	0,000
AMS. Joint Operations Graphic (Air), Series 1501, Sheet SB 37-11 1st ed, Dec 67, scale 1:25	0,000

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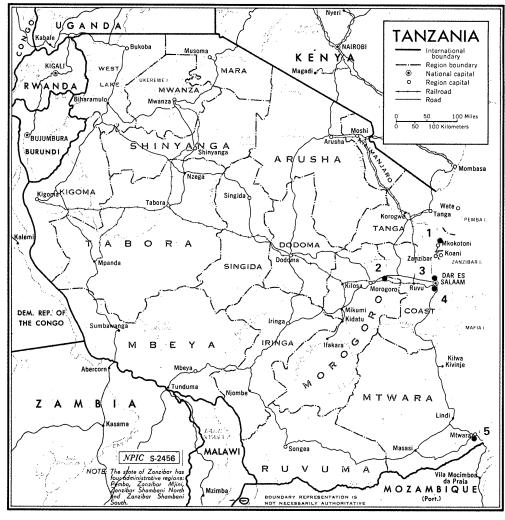


FIGURE 1. AW RADAR SITES IN TANZANIA (ITEMS KEYED TO TABLE 1)

Table 1. AW Radar Sites in Tanzania (Items keyed to Figure 1)

Item	Name/Coordinates/BE No	Status	Order-of-Battle
1	Potoa AW Radar Fac 05-51-34S 039-17-27E	Осс	1 poss CROSS SLOT
2	Ngerengere Afld AW Radar Fac 06-43-50S 038-08-50E	Occ	1 SLOT REST 1 KNIFE REST
3	Dar es Salaam AW Radar Fac 06-39-10S 039-37-20E	Осс	2 CROSS SLOT
4	Dar es Salaam AW Radar Fac SW 06-53-22S 039-10-39E	Occ	1 SLOT REST
5	Mikindani AW Radar Fac 10-17-30S 040-05-30E	Occ	1 CROSS SLOT

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Status Order-of-Battle Name/Coordinates/BE No 3 SA-3 four-rail launchers (without missiles), 7 SA-3 transporters, 1 LOW BLOW, Dar es Salaam SA-3 SAM Site (1) 06-44-00S 039-16-00E Occ 1 acquisition radar 3 SA-3 four-rail launchers Dar es Salaam SA-3 SAM Site (2) Occ (without missiles), 1 LOW BLOW, 1 acquisition radar 06-49-00S 039-18-30E 1 acquisition radar
3 SA-3 four-rail launchers
(net covered),
1 prob SA-3 four-rail launcher
(in travel mode),
1 prob SA-3 transporter,
1 LOW BLOW antenna unit
1 LOW BLOW base unit Dar es Salaam SA-3 SAM Site (3) 06-49-00S-039-12-00E Dar es Salaam SA-3 SAM Site (4) L06.64.005.030.12-00E 3 SA-3 four-rail launchers Occ (without missiles), 2 SA-3 transporters, 1 LOW BLOW Dar es Salaam SA-3 SAM Support Facility 06-54-00S 039-17-00E Осс 3 poss SA-3 missiles, 15 SA-3 transporters, 12 SA-3 canister transporters Dar es Salaam Prob SA-3 Support Facility Ucon 06-55-00S 039-16-00E

FIGURE 4. SA-3 SAM SITES AND SUPPORT FACILITIES, DAR ES SALAAM

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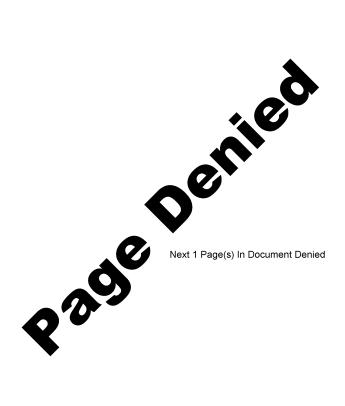
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List of Conversion Factors by Classification

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HECTARES

UNITS OF MASS

IF YOU HAVE	MULTIPLY BY	TO OBTAIN	IF YOU HAVE	MULTIPLY BY	TO OBTAIN
MILLIMETERS	0.0394	INCHES	KILOGRAMS	2.2046	POUNDS(AVOIR.)
CENTIMETERS	0.3937	INCHES	POUNDS(AVOIR.)	0.4536	KILOGRAMS
INCHES	25.4000	MILLIMETERS	SHORT TONS	0.9072	METRIC TONS
INCHES	2.5400	CENTIMETERS	METRIC TONS	1.1023	SHORT TONS
FEET	0.3048	METERS	METRIC TONS	0.9842	LONG TONS
FEET	0.0003	KILOMETERS	LONG TONS	1.0160	METRIC TONS
YARDS	0.9144	METERS			
METERS	3.2808	FEET			
METERS	0.0005	MILES(NAUTICAL)			
METERS	1.0936	YARDS	, U	UME	
KILOMETERS	3280.8400	FEET			
KILOMETERS	0.6214	MILES(STATUTE)	IF YOU HAVE	MULTIPLY BY	TO OBTAIN
KILOMETERS	0.5400	MILES(NAUTICAL)	LITERS	0.2642	GALLONS
MILES(STATUTE)	1.6093	KILOMETERS	LITERS	0.0063	BARRELS(POL)
MILES(NAUTICAL)	6076.1154	FEET	LITERS	0.0010	CUBIC METERS
MILES(NAUTICAL)	1.8520	KILOMETERS	GALLONS	3.7854	LITERS
MILES(NAUTICAL)	1852.0000	METERS	GALLONS	0.1337	CUBIC FEET
			GALLONS	0.0238	BARRELS(POL)
			GALLONS	0.0038	CUBIC METERS
			BUSHELS	0.0352	CUBIC METERS
	UNITS OF AR	EA	CUBIC FEET	7.4805	GALLONS
IF YOU HAVE	MULTIPLY BY	TO OBTAIN	CUBIC FEET	0.1781	BARRELS(POL)
SQUARE CENTIMETERS	S 0.1550	SQUARE INCHES	CUBIC FEET	0.0283	CUBIC METERS
SQUARE INCHES	6.4516	SQUARE CENTIMETERS	CUBIC YARDS	0.7646	CUBIC METERS
SQUARE FEET	0.0929	SQUARE METERS	BARRELS(POL)	158.9873	LITERS
SQUARE YARDS	0.8361	SQUARE METERS	BARRELS(POL)	42.0000	GALLONS
SQUARE METERS	10.7639	SQUARE FEET	BARRELS(POL)	5.6146	CUBIC FEET
SQUARE METERS	1.1960	SQUARE YARDS	BARRELS(POL)	0.1590	CUBIC METERS
SQUARE METERS	1.0000	CENTARES	CUBIC METERS	1000.0000	LITERS
SQUARE METERS	0.0002	ACRES	CUBIC METERS	264.1721	GALLONS
SQUARE METERS	0.0001	HECTARES	CUBIC METERS	35.3147	CUBIC FEET
ACRES	4046.8564	SQUARE METERS	CUBIC METERS	28.3776	BUSHELS
ACRES	0.4047	HECTARES	CUBIC METERS	6.2898	BARRELS(POL)
HECTARES	10000.0000	SQUARE METERS	CUBIC METERS	1.3080	CUBIC YARDS

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